# Edco DCB Series

DC Power Protection for Critical Equipment

Power Switching & Controls
For *Business-Critical Continuity™*

DC powered equipment is susceptible to transient events that may pass from the AC, Telco, or Coax services to the equipment directly or through other equipment. Harmful transients found in all power services can cause costly damage and downtime of vital DC powered equipment.

In response to this problem, the Edco DCB Series for state-of-the-art surge protection was created to fit various application needs. The Edco DCB Series is available in 24 or 48 VDC configurations, and mounts to an equipment chassis. Its compact size makes the Edco DCB Series easy to install, even in the tightest spaces.

Alone, or as part of your overall power protection strategy, the Edco DCB Series protects and provides unparalleled performance in power protection for critical equipment.

## Features

- Bipolar Silicon Avalanche Diode technology provides fast, nondegrading protection
- Metal Oxide Varistors provide a "second stage" of power protection
- Ideal protection for radios, channel banks, rectifiers, inverters, converters and various other DC powered equipment
- Compact module designed to fit tight spaces where DC power protection is needed

## General Technical Specifications

| **Dimensions:** | |
|---|---|
| DCB-24S | 5.2W x 2.8H x 2D inches; 13.2W x 7.1H x 5.1D cm |
| DCB-48 | 5.25W x 3.1H x 2.4D inches; 13.4W x 7.8H x 6.1D cm |
| **Weight** | 0.75 lb; .033 kg |
| **Operating Temperature** | -40°C to +60°C |

## Performance Technical Specifications

| | **DCB-24S** | **DCB-48** |
|---|---|---|
| **Service Voltage** | 24 Vdc | 48 Vdc |
| **Nominal Clamp Voltage** | 31 Vpk | 83 Vpk |
| **Suppression Modes** | L-L | L-L |
| **Surge Clamp Level (3000 amp, 8/20ms)** | 63 Vpk | 120 Vpk |
| **Energy Rating (10x1000µs)** | SAD-90 J<br>MOV-160 J | SAD-80 J<br>MOV-304 J |
| **Maximum Current Pulse Rating (8/20µs)** | 17,000 A | 52,500 A |
| **Maximum Continuous Service Amperage** | 150 A | 150 A |
| **Response Time** | ≤ 5 ns | ≤ 5 ns |
| **Visual Indicators:**<br>**Power**<br>**Suppression Alert** | <br>Green LED<br>Red LED | <br>Green LED<br>Red LED |
| **Options** | Standard Lug (S)<br>Mini Lug (M) | Standard Lug (S)<br>Mini Lug (M) |
| **Interface**<br>**Lugs: S Model**<br>**Lugs: M Model** | 2 In; 2 Out<br>(4) 14-2/0 AWG<br>(4) 14-2 AWG | 2 In; 2 Out<br>(4) 14-2/0 AWG<br>(4) 14-2 AWG |

**Emerson Network Power.**
The global leader in enabling *Business-Critical Continuity™.*

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